

Application No. 10/076,976

SUMMARY OF THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

1.-17. (Canceled).

18. (Previously Presented) A collection of nanoparticles comprising rutile titanium dioxide, the nanoparticles being weakly agglomerated, wherein the particles have an average diameter no more than about 150 nm and effectively no particles have a diameter greater than about four times the average diameter.

19. (Previously Presented) The collection of nanoparticles of claim 18 wherein the nanoparticles have an average diameter from about 5 nm to about 125 nm.

20. (Previously Presented) The collection of nanoparticles of claim 18 wherein effectively no particles have a diameter greater than about three times the average diameter.

21. (Previously Presented) The collection of nanoparticles of claim 18 wherein effectively no particles have a diameter greater than about two times the average diameter.

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22. (Previously Presented) The collection of nanoparticles of claim 18 wherein the nanoparticles have an average diameter from about 5 nm to about 50 nm.
23. (Previously Presented) The collection of nanoparticles of claim 18 wherein at least about 95 percent of the primary particles have a diameter greater than about 40 percent of the average diameter and less than about 160 percent of the average diameter.
24. (Previously Presented) The collection of nanoparticles of claim 18 wherein at least about 95 percent of the primary particles have a diameter greater than about 60 percent of the average diameter and less than about 140 percent of the average diameter.
25. (Previously Presented) The collection of nanoparticles of claim 18 wherein at least about 95 percent of the primary particles have ratios of the dimension along the major axis to the dimension along the minor axis less than about two.
26. (Previously Presented) The collection of nanoparticles of claim 18 wherein the particles comprise rutile titanium dioxide and anatase titanium dioxide.
27. (Previously Presented) The collection of nanoparticles of claim 18 wherein the particles are dispersed in an aqueous solution.
28. (Previously Presented) The collection of nanoparticles of claim 18 wherein the particles are dispersed in a non-aqueous solution.

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29. (Previously Presented) The collection of nanoparticles of claim 18 wherein the nanoparticles have an average diameter from about 5 nm to about 100 nm.

30. (Previously Presented) The collection of nanoparticles of claim 18 wherein the nanoparticles have an average diameter from about 5 nm to about 25 nm.